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ABSTRACT

POWERED RECIPROCATING SAW AND CLAMPING MECHANISM

The invention relates to a powered reciprocating saw, in particular to a pruning saw. To simplify use of the saw a clamping mechanism is provided/which holds an object in position while it is sawn. The clamping mechanism is mounted at the front portion 4 of the housing of the saw near the saw blade 20. The clamping mechanism comprises: a slide element 30 for sliding movement in cutting direction C of the saw blade, a supporting member 30; and a clamping arm 40 being rotatably mounted on the slide element 30, by means of a one way rotary clutch 42 such that the arm can freely rotate in one direction only, /in which direction the clamping arm 40 moves towards the support member 30 to clamp an object therebetween in a/clamping position below the saw blade for sawing it. When the saw is in use, it vibrates due to its reciprocating parts. Since the clamping arm 40 has a moment of inertia with respect to this axis of rotation of the one way rotary clutch 42, the oscillating movement is transformed into a stepwise, progressive rotational movement of the clamping arm which thereby closes automatically to clamp an object to be sawn.

Figure ;